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*                                                           *
*           Welcome to MESSENGER (APS Text) at USPTO        *
*                                                           *
*                                                           *
*    The USPTO production files are current through:        *
*    19 NOV. 1996 for U.S. Patent Text Data.                *
*    19 NOV. 1996 for U.S. Current Classification data.     *
*    19 NOV. 1996 for U.S. Patent Image Data.               *
*                                                           *
*                                                           *
*      * PLEASE USE 305-9000 FOR NEW TELEPHONE NUMBER *     *
*                                                           *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
*  DISCLAIMER:                                              *
*  Neither the United States Government, nor any agency     *
*  thereof, nor any of their contractors, subcontractors or *
*  employees make any warranty, expressed or implied,       *
*  including any warranty of marketability of fitness for a *
*  particular purpose; nor assumes any legal liability or   *
*  responsibility for any party's use, or the results of    *
*  such, of the data.                                       *
*                                                           *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
*                Help Desk --> 703-305-9000                 *
*                                                           *
*    The Help Desk is staffed for APS support 7 days/week.  *
*       Monday through Friday:       6:30am - 9:00pm        *
*       Saturday, Sunday, Holidays: 8:30am - 5:00 pm        *
*                                                 *24 NOV 96 16:
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*  The Help Desk staff at this number will handle all APS   *
*  related questions.                                       *
*                                                           *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
*                                                           *
*    >>>>>>>>>>>>> NEW SUNDAY HOURS !!! <<<<<<<<<<<<<        *
*                                                           *
*    The APS is available:                                  *
*           6:30am - 9:00pm Monday through Friday           *
*           7:30am - 5:00pm Saturday, Sunday, Holidays      *
*                                                           *
*      APS is unavailable Thanksgiving Day, Christmas Day,   *
*      and New Year's Day.                                  *
*                                                           *
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FILE 'USPAT' ENTERED AT 16:14:31 ON 24 NOV 96

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*              W E L C O M E    T O    T H E               *
*        U. S.   P A T E N T   T E X T   F I L E           *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
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=> frame(p)reconstruction
        349160 FRAME
         10286 RECONSTRUCTION
   L1       658 FRAME(P)RECONSTRUCTION

```
=> l1 and pixel
        23562 PIXEL
L2        252 L1 AND PIXEL

=> interpolation
L3      13522 INTERPOLATION

=> l2 and interpolation
        13522 INTERPOLATION
L4         94 L2 AND INTERPOLATION

=> l4 and average
       296855 AVERAGE
L5         69 L4 AND AVERAGE

=> l5 and select
       152655 SELECT
L6         38 L5 AND SELECT

=> l6 and adjacent
       847404 ADJACENT
L7         28 L6 AND ADJACENT

=> d 1-28
```

1.  5,576,902, Nov. 19, 1996, Method and apparatus directed to processing trick play video data to compensate for intentionally omitted data; Frank A. Lane, et al., 386/68, 109, 113 [IMAGE AVAILABLE]

2.  5,574,565, Nov. 12, 1996, Data placement on tape for a digital video tape recorder suitable for high speed picture playback; Christopher H. Strolle, et al., 386/81; 360/48; 386/65, 112 [IMAGE AVAILABLE]

3.  5,546,461, Aug. 13, 1996, Scramble system for use in digital video signal recording and reproducing system or transmission and receiving system, comprising scramble apparatus and descramble apparatus; Susumu Ibaraki, et al., 380/10, 5, 20, 37 [IMAGE AVAILABLE]

4.  5,541,657, Jul. 30, 1996, Image transmission with divided image signal transmission through selected channels; Mitsuru Yamamoto, et al., 348/388 [IMAGE AVAILABLE]

5.  5,526,131, Jun. 11, 1996, Data coding for a digital video tape recorder suitable for high speed picture playback; Christopher H. Strolle, et al., 386/112; 348/384 [IMAGE AVAILABLE]

6.  5,488,674, Jan. 30, 1996, Method for fusing images and apparatus therefor; Peter J. Burt, et al., 382/284; 348/584, 598; 382/162; 395/135 [IMAGE AVAILABLE]

7.  5,398,143, Mar. 14, 1995, Data placement on tape for a digital video tape recorder suitable for high speed picture playback; Christopher H. Strolle, et al., 360/48 [IMAGE AVAILABLE]

8.  5,377,051, Dec. 27, 1994, Digital video recorder compatible receiver with trick play image enhancement; Frank A. Lane, et al., 386/81, 124 [IMAGE AVAILABLE]

9.  5,325,449, Jun. 28, 1994, Method for fusing images and apparatus

therefor; Peter J. Burt, et al., 382/240, 233, 284 [IMAGE AVAILABLE]

10.  5,231,485, Jul. 27, 1993, Method and apparatus for transforming between fixed-rate vector quantized data and variable rate vector quantized data; Paul D. Israelsen, et al., 348/405; 341/67; 348/6, 418, 422 [IMAGE AVAILABLE]

11.  5,150,209, Sep. 22, 1992, Hierarchical entropy coded lattice threshold quantization encoding method and apparatus for image and video compression; Richard L. Baker, et al., 348/407, 408 [IMAGE AVAILABLE]

12.  5,089,887, Feb. 18, 1992, Method and device for the estimation of motion in a sequence of moving images; Philippe Robert, et al., 348/699, 416 [IMAGE AVAILABLE]

13.  5,025,309, Jun. 18, 1991, Extended definition widescreen television signal processing system; Michael A. Isnardi, 348/433, 436 [IMAGE AVAILABLE]

14.  5,008,746, Apr. 16, 1991, High definition television signal processing including subsampling and motion compensation; Philippe Bernard, et al., 348/389, 429 [IMAGE AVAILABLE]

15.  4,979,020, Dec. 18, 1990, Television signal encoded with auxiliary vertical-temporal information; Michael A. Isnardi, 348/433 [IMAGE AVAILABLE]

16.  4,951,139, Aug. 21, 1990, Computer-based video compression system; Eric R. Hamilton, et al., 348/404; 375/245 [IMAGE AVAILABLE]

17.  4,897,717, Jan. 30, 1990, Computer-based video compression system; Eric R. Hamilton, et al., 348/404, 422; 364/514R; 375/240 [IMAGE AVAILABLE]

18.  4,884,127, Nov. 28, 1989, Apparatus for pre-conditioning auxiliary television signal information; Michael A. Isnardi, et al., 348/436 [IMAGE AVAILABLE]

19.  4,855,824, Aug. 8, 1989, Compatible television system with companding of auxiliary signal encoding information; Jack S. Fuhrer, 348/434 [IMAGE AVAILABLE]

20.  4,855,811, Aug. 8, 1989, Apparatus for processing auxiliary information in an extended definition widescreen television system; Michael A. Isnardi, 348/434, 433, 436 [IMAGE AVAILABLE]

21.  4,849,810, Jul. 18, 1989, Hierarchial encoding method and apparatus for efficiently communicating image sequences; S. Staffan Ericsson, 348/416 [IMAGE AVAILABLE]

22.  4,816,914, Mar. 28, 1989, Method and apparatus for efficiently encoding and decoding image sequences; S. Staffan Ericsson, 348/405 [IMAGE AVAILABLE]

23.  4,797,729, Jan. 10, 1989, System incorporating an error tolerant picture compression algorithm; Yusheng T. Tsai, 348/396, 420 [IMAGE AVAILABLE]

24.  4,794,447, Dec. 27, 1988, Method and apparatus for transmitting and receiving a high definition NTSC compatible television signal over a single DBS channel in time division multiplex form; Mikhail Tsinberg, 348/437 [IMAGE AVAILABLE]

25.  4,751,742, Jun. 14, 1988, Priority coding of transform coefficients; G. William Meeker, 382/240; 348/403, 408; 364/715.02, 723, 725, 728.01; 382/248 [IMAGE AVAILABLE]

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27.  4,302,775, Nov. 24, 1981, Digital video compression system and methods utilizing scene adaptive coding with rate buffer feedback; Robert D. Widergren, et al., 348/406; 341/51, 61; 364/514R, 582; 375/241, 250; 382/232 [IMAGE AVAILABLE]

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